

BI ET AL.
"Channel Allocation Extension In
Communications Networks And Methods"
Atty. Docket No. CS23794RA

Appl. No. 10/685,372
Confirm. No. 4417
Examiner M. Jagannathan
Art Unit 2666

REMARKS

Request for Reconsideration, Informal Matters, Claims Pending

The non-final Office Action mailed on 7 March 2005 has been considered carefully. Reconsideration of the claimed invention in view of the amendments above and the discussion below is respectfully requested.

The Specification has been amended to include the Application number of the cross-referenced application. Applicants respectfully decline the invitation to add a Summary to the specification.

Claims 4-6, 11-14, and 16-20 were indicated as being allowable.

Claims 1-20 are pending.

Allowability of Claims Over Kuo

Rejection Summary

Claims 1-3, 7-10 and 15 stand rejected under 35 USC 102(e) as being unpatentable over U.S. Patent No. 6,504,827 (Kuo). Office Action, 7 March 2005, para. 4.

Allowability of Claim 1

Regarding Claim 1, contrary to the Examiner's assertion, Kuo fails to disclose or suggest a

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Art Unit 2666

... method in a wireless communications network infrastructure entity, the method comprising:

determining that a wireless communications device has discontinued transmission on an allocated channel;

extending the channel allocation to the wireless communications device after determining that the wireless communications device discontinued transmission;

terminating the channel allocation if the channel allocation is not extended.

At col. 1, lines 32-57, Kuo generally discusses a discontinuous data transmission technique wherein the base station transmits in a frame, f , on a control channel, a flag (bit) indicating that it has data to transmit in some future frame, $f + q$. At col. 3, line 64 - col. 4, line 15, Kuo discusses use of the forward dedicated channel in a CDMA network to transmit the flag. For the uplink, the base station in Kuo determines when to allow transmission by the mobile terminal and then sends a positive reverse flag to the mobile terminal. The reverse flag indicates when the base station is ready to receive data from the mobile. Kuo, col. 5, line 59 - col. 6, line 9.

Kuo does not disclose or discuss determining whether a mobile terminal has discontinued transmission. The sending of a flag in Kuo merely indicates when data will be sent; it is not the same as extending a channel allocation to the wireless communications device. Moreover, Kuo sends the flag after determining when data may be sent, not after determining that the wireless communications device has discontinued transmission. Kuo also fails to terminate a channel allocation if the channel allocation is not extended. Claim 1 is thus patentably distinguished over Kuo.

BI ET AL.
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Atty. Docket No. CS23794RA

Appl. No. 10/685,372
Confirm. No. 4417
Examiner M. Jagannathan
Art Unit 2666

Allowability of Claim 2

Regarding Claim 2, Kuo fails to disclose or suggest in combination with Claim 1,

... transmitting transmission rate control information to the wireless communications device to which the channel has been allocated while the wireless communications device transmits on the allocated channel;

extending the channel allocation using the transmission rate control information after determining that the wireless communications device discontinued transmission.

Contrary to the Examiner's assertion, the flag in Kuo merely indicates when (future frame) data will be sent. Kuo makes no reference to controlling the transmission rate or to extending a channel allocation using transmission rate control information. Claim 2 is thus further patentably distinguished over Kuo.

Allowability of Claim 3

Regarding Claim 3, Kuo fails to disclose or suggest in combination with Claim 2,

... not extending the channel allocation by not transmitting transmission rate control information after determining that the wireless communications device discontinued transmission.

Contrary to the Examiner's assertion, failure to send the flag in Kuo merely indicates that data will not be sent. The flag in Kuo has no relation

BI ET AL.
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Appl. No. 10/685,372
Confirm. No. 4417
Examiner M. Jagannathan
Art Unit 2666

to the transmission rate or to extending a channel allocation. Claim 3 is thus further patentably distinguished over Kuo.

Allowability of Claim 7

Regarding Claim 7, Kuo fails to disclose or suggest in combination with Claim 1,

... determining that the wireless communications device discontinued transmission by monitoring a data control channel on which the wireless communications device transmits; and
determining whether the channel allocation will be maintained in response to determining that the wireless communications device discontinued transmission.

Kuo does not disclose determining whether the mobile terminal has discontinued transmission generally. Thus there is no suggestion in Kuo to monitor a data control channel to determine that the mobile has discontinued transmission. Kuo also does not disclose determining whether to maintain a channel allocation based on determining that mobile transmission has discontinued. Claim 7 is thus further patentably distinguished over Kuo.

Allowability of Claim 8

Regarding Claim 8, Kuo fails to disclose or suggest in combination with Claim 1,

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Appl. No. 10/685,372
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Art Unit 2666

... determining that the wireless communications device discontinued transmission based on a power estimation on a data channel on which the wireless communications device transmits, determining whether the channel allocation will be maintained in response to determining that the wireless communications device discontinued transmission.

Kuo does not disclose determining whether the mobile terminal has discontinued transmission generally. Thus there is no suggestion in Kuo to determine that the mobile has discontinued transmission based on power estimation. Moreover, Kuo does not disclose determining whether to maintain a channel allocation based on determining that the mobile has discontinued transmission. Claim 8 is thus further patentably distinguished over Kuo.

Allowability of Claim 9

Regarding Claim 9, Kuo fails to disclose or suggest in combination with Claim 1,

... determining that the wireless communications device discontinued transmission based on decoding a data channel on which the wireless communication device transmits.

Kuo does not disclose determining whether the mobile terminal has discontinued transmission generally. Thus there is no suggestion in Kuo to determine that the mobile has discontinued transmission based on decoding a data channel. Moreover, Kuo does not disclose determining whether to maintain a channel allocation based on determining that the mobile has

BI ET AL.
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Appl. No. 10/685,372
Confirm. No. 4417
Examiner M. Jagannathan
Art Unit 2666

discontinued transmission. Claim 9 is thus further patentably distinguished over Kuo.

Allowability of Claim 10

Regarding Claim 10, contrary to the Examiner's assertion, Kuo fails to disclose or suggest a

... method in a wireless communications network infrastructure entity, the method comprising:

determining that a wireless communications device has discontinued transmission on an allocated channel;

indicating to the wireless communications device whether the channel allocation to the wireless communications device is extended, after determining that the wireless communications device discontinued transmission, using rate control information transmitted to the wireless communications device after the wireless communications device discontinued transmission.

At col. 1, lines 32-57, Kuo generally discusses a discontinuous data transmission technique wherein the base station transmits in a frame, f , on a control channel, a flag (bit) indicating that it has data to transmit in some future frame, $f + q$. At col. 3, line 64 - col. 4, line 15, Kuo discusses use of the forward dedicated channel in a CDMA network to transmit the flag. For the uplink, the base station in Kuo determines when to allow transmission by the mobile terminal and then sends a positive reverse flag to the mobile terminal. The reverse flag indicates when the base station is ready to receive data from the mobile. Kuo, col. 5, line 59 - col. 6, line 9.

Kuo does not disclose or discuss determining whether a mobile terminal has discontinued transmission on an allocated channel. The sending

BI ET AL.
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Atty. Docket No. CS23794RA

Appl. No. 10/685,372
Confirm. No. 4417
Examiner M. Jagannathan
Art Unit 2666

of a flag in Kuo merely indicates when data will be sent. The flag in Kuo is unrelated to rate information. Kuo sends the flag after determining when data may be sent, not after determining that the wireless communications device has discontinued transmission on an allocated channel. Claim 10 is thus patentably distinguished over Kuo.

Allowability of Claim 10

Regarding Claim 10, contrary to the Examiner's assertion, Kuo fails to disclose or suggest a

... method in a wireless communications device, the method comprising:
terminating transmission on an allocated channel;
receiving transmission rate control information after terminating the transmission,
interpreting the transmission rate control information received after terminating the transmission on the allocated channel as an indication that the channel allocation has been extended beyond the time during which the transmission was terminated.

At col. 1, lines 32-57, Kuo generally discusses a discontinuous data transmission technique wherein the base station transmits in a frame, f , on a control channel, a flag (bit) indicating that it has data to transmit in some future frame, $f + q$. At col. 3, line 64 - col. 4, line 15, Kuo discusses use of the forward dedicated channel in a CDMA network to transmit the flag. For the uplink, the base station in Kuo determines when to allow transmission by the mobile terminal and then sends a positive reverse flag to the mobile terminal.

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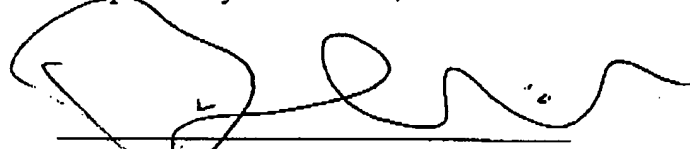
The reverse flag indicates when the base station is ready to receive data from the mobile. Kuo, col. 5, line 59 - col. 6, line 9.

Kuo does not disclose or discuss receiving transmission rate control information after terminating the transmission. The sending of a flag in Kuo indicates when data will be sent. The flag in Kuo is unrelated to rate information. Moreover, the mobile terminal in Kuo does not interpret the transmission rate control information received after terminating the transmission on the allocated channel as an indication that the channel allocation has been extended beyond the time during which the transmission was terminated. Claim 10 is thus patentably distinguished over Kuo.

Prayer For Relief

In view of any amendments and the discussion above, the Claims of the present application are in condition for allowance. Kindly withdraw any rejections and objections and allow this application to issue as a United States Patent without further delay.

Respectfully submitted,



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